

Title (en)  
INTEGRATED MULTI-MODE MAMMOGRAPHY/TOMOSYNTHESIS X-RAY SYSTEM

Title (de)  
INTEGRIERTES MULTIMODUS- MAMMOGRAPHIE/TOMOSYNTHESE-RÖNTGENSYSTEM

Title (fr)  
SYSTÈME DE RAYONS X POUR MAMMOGRAPHIE/TOMOSYNTÈSE MULTI-MODE INTÉGRÉ

Publication  
**EP 3311748 A2 20180425 (EN)**

Application  
**EP 17200339 A 20090904**

Priority  
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• EP 09792256 A 20090904

Abstract (en)  
A multi-mode breast x-ray imaging system comprising an x-ray source and an x-ray detector. The source and detector perform a single image scan which generates images during a single breast compression, using at least two different imaging modes including mammography and tomosynthesis imaging. The imaging modes may differ with regard to an imaging procedure selected from: receptor motion; anti-scatter grid use; exposure control; and/or patient shielding, and the system may be arranged to apply an AEC method wherein a receptor count varies during the different imaging modes to compensate for radiographic scatter. The system may be adapted to use information from a single scout image to identify a density of a patient's breast for use in the at least two imaging modes. The system may be adapted to dynamically modify an exposure technique for the image scan based on a signal reaching the detector.

IPC 8 full level  
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CPC (source: EP KR)  
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**WO 2010028208 A1 20100311**; AU 2009289574 A1 20100311; AU 2009289574 B2 20150618; CA 2735935 A1 20100311; CA 2735935 C 20170725; CN 102196772 A 20110921; DE 202009018884 U1 20140404; EP 2326248 A1 20110601; EP 2326248 B1 20171108; EP 3311748 A2 20180425; EP 3311748 A3 20180509; JP 2012501750 A 20120126; JP 2013255844 A 20131226; JP 2014184342 A 20141002; JP 2016135319 A 20160728; JP 2017099928 A 20170608; JP 2018086584 A 20180607; JP 3187716 U 20131212; JP 5792250 B2 20151007; JP 6247717 B2 20171213; JP 6360923 B2 20180718; KR 20110063659 A 20110613

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**US 2009055981 W 20090904**; AU 2009289574 A 20090904; CA 2735935 A 20090904; CN 200980142367 A 20090904; DE 202009018884 U 20090904; EP 09792256 A 20090904; EP 17200339 A 20090904; JP 2011526216 A 20090904; JP 2013005593 U 20130927; JP 2013201895 A 20130927; JP 2014141331 A 20140709; JP 2016087710 A 20160426; JP 2017018187 A 20170203; JP 2018043946 A 20180312; KR 20117007833 A 20090904